

Notice of Allowability	Application No.	Applicant(s)	
	09/895,982	DOVER, LANCE W.	
	Examiner	Art Unit	
	Gary J Portka	2188	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE and amendment filed December 27, 2004.
2. ☒ The allowed claim(s) is/are 1-8, 41-50, and 31-40, renumbered as 1-28 respectively.
3. ☒ The drawings filed on 29 June 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

Gary J Portka
Primary Examiner
Art Unit: 2188

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kevin Shao on February 14, 2005.

The application has been amended as follows:

In the claims:

1. (Currently amended) An apparatus, comprising:
 - a memory unit to store data;
 - a plurality of memory-sensing devices coupled to the memory unit to sense the data stored in the memory unit substantially concurrently;
 - a request queue coupled to the memory unit via the memory-sensing devices, the request queue storing one or more requests while the memory-sensing devices are sensing data in the memory unit;
 - a response queue coupled to the memory-sensing devices, the response queue storing data from the memory-sensing devices that is not required to be returned to a requester immediately; and

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an arbiter coupled to said response queue to transmit one or more responses stored in the response queue to a requester in an order based on a priority of the respective request corresponding to the response,

wherein the one or more requests include a first request from a first requester for requesting data having a first portion and a second portion, and a second request from a second requester received after the first request for requesting data having a first portion and a second portion, and wherein the first portion of the second request is returned to the second requester before the second portion of the first request is returned to a first requester, and wherein the second portion of the second request is returned after one of the first and second portions of the first request.

31. (Currently amended) An apparatus, comprising:

a memory unit to store data;

a plurality of memory-sensing devices coupled with said memory unit, the plurality of memory-sensing devices capable of sensing data stored in the memory unit substantially concurrently;

a request queue coupled with said memory sensing devices to receive more than one request to sense data in said memory unit;

an arbiter coupled with said memory sensing devices to determine the sequence to return the data in response to the more than one request, the data being returned in an order based on a priority of the respective request determined by the arbiter,

wherein the more than one request includes a first request from a first requester for requesting data having a first portion and a second portion, and a second request from a second requester received after the first request for requesting data having a first portion and a second portion, ~~and~~ wherein the first portion of the second request is returned to the second requester before the second portion of the first request is returned to a first requester, and wherein the second portion of the second request is returned after one of the first and second portions of the first request.

38. (Currently amended) A system, comprising:

a processor; and

a memory device coupled to the processor, the memory device including

a memory unit to store data;

a plurality of memory-sensing devices coupled with said memory unit to sense the data stored in the memory unit substantially concurrently,

a request queue coupled with said memory sensing devices to receive more than one request to sense data in said memory unit, and

an arbiter coupled with said memory sensing devices to determine the sequence to return the data in response to the more than one request based on a priority of the requests determined by the arbiter,

wherein the more than one request includes a first request from a first requester for requesting data having a first portion and a second portion, and a second request from a second requester received after the first request for

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requesting data having a first portion and a second portion, and wherein the first portion of the second request is returned to the second requester before the second portion of the first request is returned to a first requester, and wherein the second portion of the second request is returned after one of the first and second portions of the first request.

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary J Portka whose telephone number is (571) 272-4211. The examiner can normally be reached on M-F 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on (571) 272-4210. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Gary J Portka
Primary Examiner
Art Unit 2188

February 14, 2005